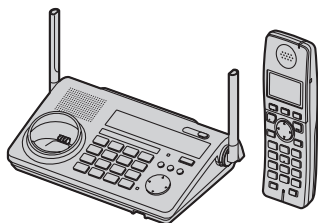


Panasonic

Operating Instructions

5.8 GHz Expandable Digital Cordless Phone

Model No. **KX-TG5961AL**



This unit is compatible with Caller ID. To use this feature, you must subscribe to the appropriate service offered by your telephone service provider.

Charge the handset battery for 7 hours before initial use.

Please read these Operating Instructions before using the unit and save for future reference.

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Introduction

Thank you for purchasing a Panasonic cordless telephone.

We recommend keeping a record of the following information for future reference.

Serial No.

Date of purchase

(found on the bottom of the base unit)

Name and address of dealer

Attach your purchase receipt here.

About these operating instructions

Notable differences among KX-TG5961AL, KX-TGA590AL, and KX-TGA591AL

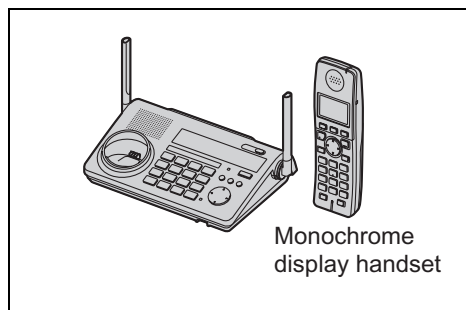
These operating instructions can be used for the KX-TG5961AL. They also describe the operations related to these optional handsets.

- KX-TG5961AL features a monochrome display handset (KX-TGA590AL).
- KX-TGA591AL features a colour display handset with USB-support.

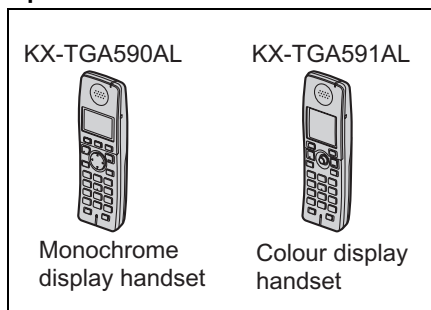
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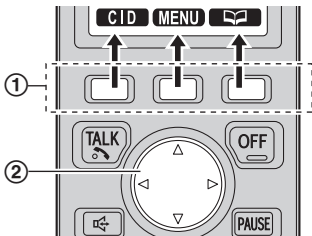
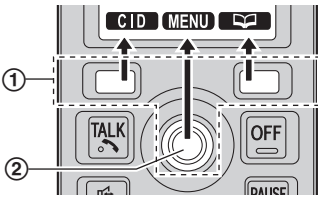
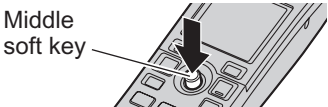
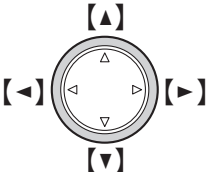
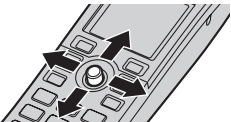
- Features and operations indicated by “**monochrome display models**” are for KX-TG5961AL users and KX-TGA590AL (accessory handset) users only.
- Features and operations indicated by “**colour display models**” are for KX-TGA591AL (accessory handset) users only.
- For differences between the monochrome display handset (KX-TGA590AL) and the colour display handset (KX-TGA591AL), see page 7.
- References in these operating instructions to “a charger” or “other handsets” are for accessory handset users only. See “Expanding your phone system” on page 6.

KX-TG5961AL






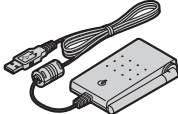
Optional handset



Monochrome display model: KX-TGA590AL (included with KX-TG5961AL)	Colour display model: KX-TGA591AL
	
<p>① Using the soft keys</p> <p>The handset features 3 soft keys. By pressing a soft key, you can select the feature shown directly above it on the display.</p>	<p>① Using the soft keys</p> <p>The handset features 2 soft keys and joystick (middle soft key). By pressing a soft key, you can select the feature shown directly above it on the display.</p> <p>Middle soft key:</p> <p>The joystick can be used to select the centre soft key icon, by pressing down on the centre of the joystick.</p> 
<p>② Using the navigator key</p> <p>The handset navigator key can be used to navigate through menus and to select items shown on the display, by pressing [▲], [▼], [◀], or [▶].</p> 	<p>② Using the joystick</p> <p>The handset joystick can be used to navigate through menus and to select items shown on the display, by pushing it up [▲], down [▼], left [◀], or right [▶].</p> 

Expanding your phone system

You can expand the phone system by registering the following handsets and other devices to a single base unit: **max. 8**

Handsets and other devices: max. 8			
5.8 GHz expandable digital cordless handset KX-TGA590AL (Monochrome display type)		5.8 GHz expandable digital cordless camera KX-TGA593AL (For camera monitoring from a colour display handset KX-TGA591AL) max. 7	
5.8 GHz expandable digital cordless handset KX-TGA591AL (Colour display type with USB support)		5.8 GHz USB adaptor KX-TGA595AL (For calls over the Internet)* ¹ max. 1	

*1 By registering the 5.8 GHz USB adaptor KX-TGA595AL to your base unit and installing Skype software to your computer, you can make calls with your handset over the Internet via the computer. For operations related to this USB adaptor, refer to the operating instructions included with the USB adaptor.

Trademark

- Skype is a registered brand or trademark of Skype technology in the United States and/or other countries.

Handset feature overview for KX-TGA590AL and KX-TGA591AL

Operations and features of the 2 different accessory handsets have certain differences as indicated in the table below.

Feature	KX-TGA590AL	KX-TGA591AL	Page
Description	Same handset supplied with KX-TG5961AL	Available as accessory handset only	–
Display type	Monochrome	Colour	–
Display size	1.4 inch	1.5 inch	–
Control type	Navigator key	Joystick	5
USB-support ^{*1*2}	–	●	–
Custom ring	●	●	47
Melody Utility ^{*2}	–	●	–
Picture ID	–	●	38
Picture Utility ^{*2}	–	●	–
Wallpaper	–	●	50
Phonebook Utility ^{*2}	–	●	–
Memory status display	–	●	50
Camera monitoring ^{*3}	–	●	–

*1 USB-support allows you to connect the handset to your computer and send images and melodies from your computer to the handset, as well as create and edit phonebook entries using your computer.

*2 For information on using this feature, refer to the help section of the GIGARANGE USB Utility software. If you have not installed the GIGARANGE USB Utility software, refer to the included “Installation Guide for GIGARANGE USB Utility” for details.

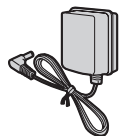
*3 Requires the 5.8 GHz expandable cordless camera KX-TGA593AL.

Accessory information

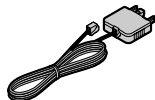
Included accessories

No.	Accessory item	Quantity
①	AC adaptor for base unit	1
②	Telephone line cord	1
③	Wall-mounting adaptor	1
④	Battery	1
⑤	Handset cover ^{*1}	1
⑥	Audio cable	1

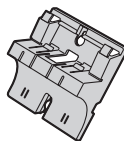
①



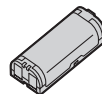
②



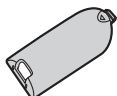
③



④



⑤



⑥



^{*1} The handset cover comes attached to the handset.

Additional/replacement accessories

Accessory item	Order number
Rechargeable nickel metal hydride (Ni-MH) battery	HHR-P105
Headset	KX-TCA86AL or KX-TCA92AL
Belt clip	PQKE10457Z1

Note:

- You can expand your phone system by registering additional compatible Panasonic units (page 6).

GIGARANGE® USB utility (Colour display models only)

The CD-ROM included with KX-TGA591AL contains the GIGARANGE USB Utility.

Allows you to use your computer to:

- Add, edit, erase, and copy phonebook entries
- Send images stored in your computer to your phone
- Send melodies stored in your computer to your phone
- To install the GIGARANGE USB Utility software in your computer, refer to the “Installation Guide for GIGARANGE USB Utility” for installation details.

Important safety instructions

When using the product, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read all instructions carefully.
2. Follow all warnings and instructions marked on the product.
3. Unplug the product from power outlets before cleaning. Do not use liquid or aerosol cleaners. Use a moist cloth for cleaning.
4. Do not use the product near water, for example near a bathtub, wash bowl, kitchen sink, etc.
5. Place the product securely on a stable surface. Serious damage and/or injury may result if the product falls.
6. Do not cover slots and openings on the product. They are provided for ventilation and protection against overheating. Never place the product near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the product. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the product where no one can step or trip on the cord.
9. Do not overload power outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in the product. This may result in the

risk of fire or electric shock. Never spill any liquid on the product.

11. To reduce the risk of electric shock, do not disassemble the product. Take the product to an authorised service centre when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the product is subsequently used.
12. Unplug the product from power outlets and take to an authorised service centre when the following conditions occur:
 - A. When the power cord is damaged or frayed.
 - B. If liquid has been spilled into the product.
 - C. If the product has been exposed to rain or water.
 - D. If the product does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorised service centre.
 - E. If the product has been dropped or physically damaged.
 - F. If the product exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones including cordless phones. There is a risk of an electric shock from lightning.
14. Do not use the product to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

CAUTION:

Installation

- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.
- Do not touch the plug with wet hands.
- The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is installed near the product and is easily accessible.
- To prevent electric shock, use only the included audio cable with the transformer when connecting the unit to an audio device.

Battery

To reduce the risk of fire or injury to persons, read and follow these instructions.

- Use only the battery(ies) specified.
- Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
- Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
- Exercise care when handling the battery(ies). Do not allow conductive materials such as rings, bracelets or

keys to touch the battery(ies), otherwise a short circuit may cause the battery(ies) and/or the conductive material to overheat and cause burns.

- Charge the battery(ies) provided, or identified for use with the product only, in accordance with the instructions and limitations specified in this manual.

WARNING:

- To prevent the risk of fire or electrical shock, do not expose the product to rain or any type of moisture.
- Unplug the product from power outlets if it emits smoke, an abnormal smell, or makes an unusual noise. These conditions can cause fire or electric shock. Confirm that smoke has stopped emitting and contact an authorised service centre.

Medical

- Consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The product operates in the frequency range of 5.76 GHz to 5.84 GHz, and the power output is 200 mW (max.)) Do not use the product in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Notice

- Please ensure that a separate telephone, not dependent on local power, is available for emergency use.
- This equipment will be inoperable when mains power fails.
- When a failure occurs which results in the internal parts becoming accessible, disconnect the power supply cord immediately and return the product to an authorised service centre.
- To minimise the possibility of lightning damage, when you know that a thunderstorm is coming, we recommend that you:
 - Unplug the telephone line cord from the phone socket.
 - Unplug the AC adaptor from the AC power outlet.
- No “000” or other calls can be made from this device during a mains power failure.
- The earpiece on the handset is magnetised and may retain small metallic objects.
- This equipment has been tested and found to comply with AS/NZS 3548: 1995 limits for electromagnetic interference. Any modifications to any part of the system or to any peripherals may void the EMC compliance of the system or the peripherals.

For best performance

Base unit location/avoiding noise

The base unit and other compatible Panasonic units use radio waves to communicate with each other.

For maximum distance and noise-free operation, we recommend the following:

- Placing the product away from electrical appliances.
- Placing the base unit in a HIGH and CENTRAL location with no obstructions such as walls.
- Raising the antennas vertically.
- If you use the handset near a microwave oven which is being used, noise may be heard. Move away from the microwave oven and closer to the base unit.
- If you use the handset near another cordless phone's base unit, noise may be heard. Move away from the other cordless phone's base unit and closer to your base unit.

Environment

- Keep the product away from electrical noise generating devices, such as fluorescent lamps and motors.
- The product should be kept free from excessive smoke, dust, high temperature, and vibration.
- The product should not be exposed to direct sunlight.
- Do not place heavy objects on top of the product.
- When you leave the product unused for a long period of time, unplug the product from the power outlet.

- The product should be kept away from heat sources such as heaters, kitchen stoves, etc. It should not be placed in rooms where the temperature is less than 5 °C or greater than 40 °C. Damp basements should also be avoided.
- The maximum calling distance may be shortened when the product is used in the following places: Near obstacles such as hills, tunnels, underground, near metal objects such as wire fences, etc.
- Operating the product near 5.8 GHz electrical appliances may cause interference. Move away from the electrical appliances.

Routine care

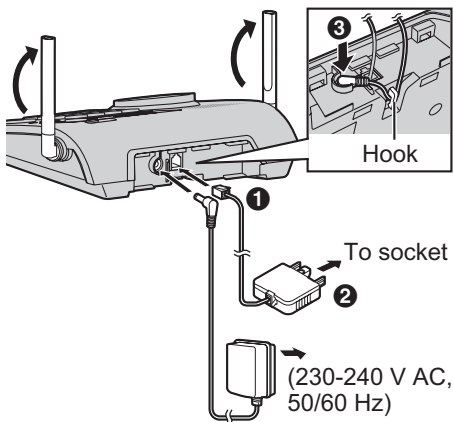
- Wipe the outer surface of the product with a soft moist cloth. Do not use benzine, thinner, or any abrasive powder.

Setting up the base unit

Connecting the AC adaptor and telephone line cord

Connect the telephone line cord until it clicks into the base unit (❶) and telephone line socket (❷). Connect the AC adaptor cord by pressing the plug firmly (❸).

- Use only the included Panasonic AC adaptor PQLV207AL.



Note:

- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- The AC adaptor should be connected to a vertically oriented or floor-mounted AC outlet. Do not connect the AC adaptor to a ceiling-mounted AC outlet, as the weight of the adaptor may cause it to become disconnected.
- The unit will not work during a power failure. We recommend connecting a corded telephone to the same telephone

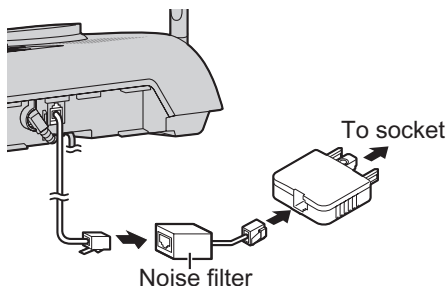
line or to the same telephone jack using a telephone double adaptor.

- The unit is not designed to be used with rotary (pulse dialling) services.

If you subscribe to an ADSL service

Please attach a noise filter (contact your ADSL provider) to the telephone line between the base unit and the telephone line socket in the event of the following:

- Noise is heard during conversations.
- Caller ID features (page 36) do not function properly.

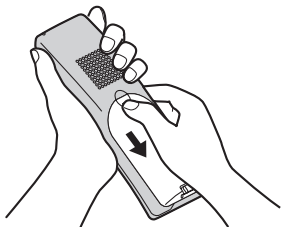


Setting up the handset

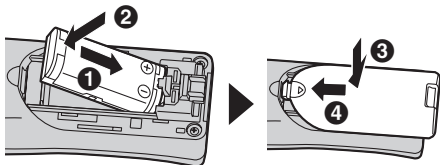
Battery installation/replacement

- 1** Press the notch of the handset cover firmly, and slide it in the direction of the arrow.

- If necessary, remove the old battery.



- 2** Insert the battery (1), and press it down until it snaps into position (2). Then close the handset cover (3, 4).



Important:

- Use only the rechargeable Panasonic battery noted on page 9.

Battery charge

Place the handset on the base unit for **7 hours** before initial use.

While charging, the charge indicator on the handset lights in amber. When the battery is fully charged, the indicator lights in green.











Note:

- If you want to use the handset immediately, charge the battery for at least 15 minutes.
- To ensure that the battery charges properly, clean the charge contacts of the handset and base unit with a soft, dry cloth once a month. Clean more often if the unit is subject to the exposure of grease, dust, or high humidity.

Preparation

Battery level

Battery icon		Battery level
Monochrome display models ^{*1}	Colour display models ^{*2}	
		Fully charged
		Medium
		Low Flashing: needs to be recharged.
		Empty

^{*1} KX-TG5961AL/KX-TGA590AL

^{*2} KX-TGA591AL

Note:

- When the battery needs to be charged, the handset beeps intermittently during use.

Panasonic battery performance

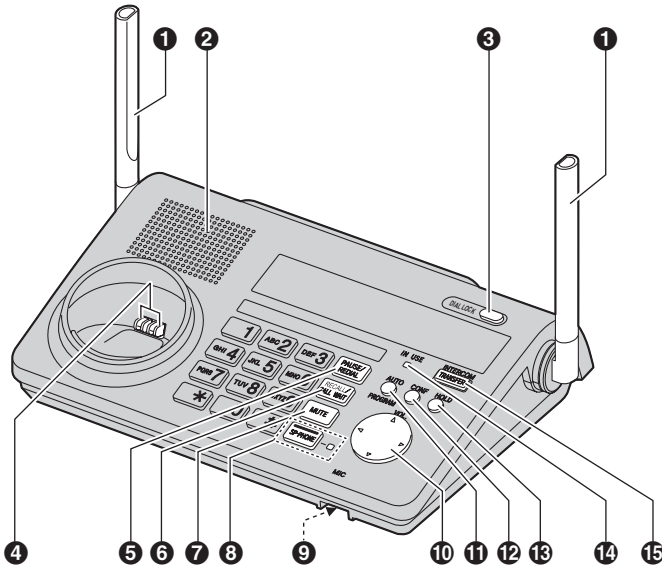
Operation	Operating time
While in use (talking)	Up to 5 hours
While not in use (standby)	Up to 7 days
While using the clarity booster feature (page 27)	Up to 3 hours

Note:

- Battery operating time may be shortened over time depending on usage conditions and surrounding temperature.
- Battery power is consumed whenever the handset is off the base unit, even when the handset is not in use. Hence the longer you leave the handset off the base unit, the less time you may actually talk using the handset.
- After the handset is fully charged, displaying "**Charge completed**", it may be left on the base unit without any ill effect on the battery.
- The battery level may not be displayed correctly after you replace the battery. In this case, place the handset on the base unit and let charge for 7 hours.

Controls

Base unit

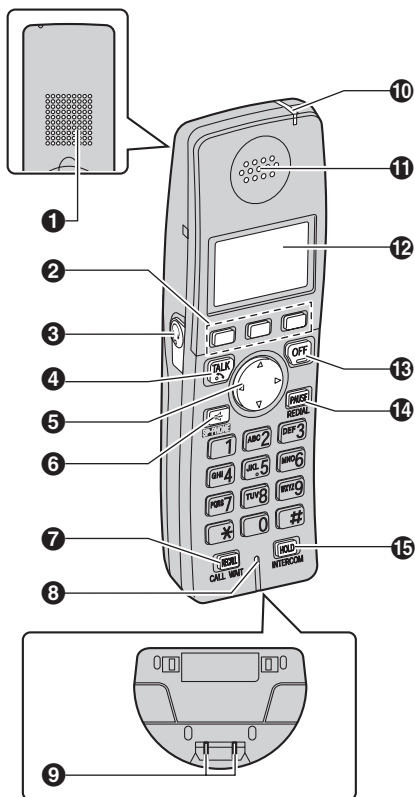


- | | |
|--|---|
| 1 Antenna | 9 MIC (Microphone) |
| 2 Speaker | 10 Navigator key ([▲] [▼] [◀] [▶]) |
| 3 [DIAL LOCK] | 11 [AUTO] [PROGRAM] |
| 4 Charge contacts | 12 [CONF] (Conference) |
| 5 [PAUSE] [REDIAL] | 13 [HOLD] |
| 6 [RECALL] [CALL WAIT] | 14 IN USE indicator |
| 7 [MUTE] | 15 [TRANSFER] [INTERCOM] |
| 8 [SP-PHONE] (Speakerphone)
SP-PHONE indicator | |

Preparation

Monochrome display model: KX-TGA590AL (included with KX-TG5961AL)

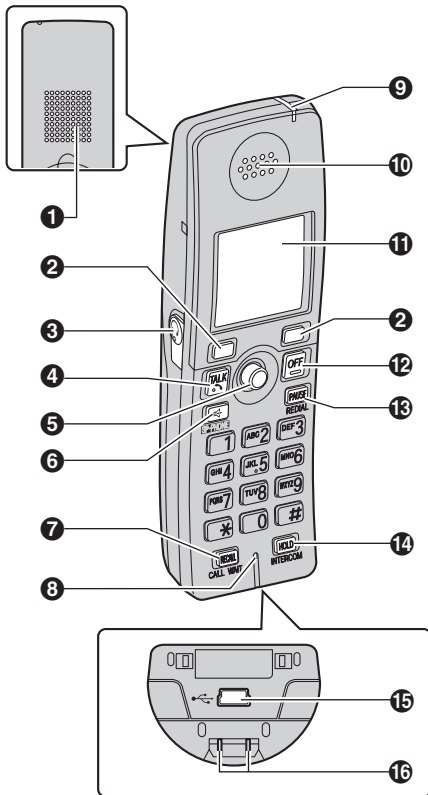
Handset



- ❶ Speaker
- ❷ Soft keys
- ❸ Headset jack/Audio jack
- ❹ [↶] (TALK)
- ❺ Navigator key ([▲] [▼] [◀] [▶])
- ❻ [📞] (SP-PHONE)
- ❼ [RECALL] [CALL WAIT]
- ❽ Microphone
- ❾ Charge contacts
- ❿ Charge indicator
Ringer indicator
Message indicator
- ⓫ Receiver
- ⓬ Display
- ⓭ [OFF]
- ⓮ [PAUSE] [REDIAL]
- ⓯ [HOLD] [INTERCOM]

Colour display model: KX-TGA591AL (optional)

Handset












- 1** Speaker
- 2** Soft keys
- 3** Headset jack/Audio jack
- 4** [TALK]
- 5** Joystick
 - [▲] [▼]: Push the joystick up or down.

- [◀] [▶]: Push the joystick left or right.
- **Middle soft key:** Push the centre of joystick.
- 6** [SP-PHONE]
- 7** [RECALL] [CALL WAIT]
- 8** Microphone
- 9** Charge indicator
Ringer indicator
Message indicator
- 10** Receiver
- 11** Display
- 12** [OFF]
- 13** [PAUSE] [REDIAL]
- 14** [HOLD] [INTERCOM]
- 15** USB port
- 16** Charge contacts

Displays

Handset display items

Displayed item	Meaning
--:-- ^{*2}	The date and time need to be set.
	Within range of the base unit
	Handset has no link to base unit (out of range of base unit, handset is not registered to base unit, or no power on base unit).
VE	Voice enhancer is on.
 ^{*1}  ^{*2}	Battery level
IN USE	Line is in use. When flashing: a call is on hold. When flashing rapidly: a call is being received.
SP ^{*1} SP ^{*2}	Speaker is on.
PRIV. ^{*1} PRIV. ^{*2}	Call Privacy mode is on.
Example:  ^{*1}  ^{*2}	The handset's extension number (example shown here: handset 1)
 (displayed in the top centre)	Handset ringer is off.

Displayed item	Meaning
 ^{*1}  ^{*2}	Dial lock is on.

^{*1} Monochrome display models:
KX-TG5961AL/KX-TGA590AL

^{*2} Colour display models:
KX-TGA591AL













Handset menu icons

When in standby mode, pressing **[MENU]** (middle soft key) on the handset reveals the main menu. From here you can access various features and settings.

Note:













- The menu icons shown in these operating instructions vary slightly from the actual icons shown on the display.

Monochrome display models:
KX-TG5961AL/KX-TGA590AL

Menu icon	Menu/feature
 	Voice Mail
 	Ringer setting
 	Phonebook
 	Set date & time
 	Initial setting
 	Dial lock

- Each menu icon on the left changes to the one on the right when selected.

Colour display models: KX-TGA591AL

Menu icon		Menu/feature
		Voice Mail
		Ringer setting
		Display setting
		Set date & time
		Initial setting
		Dial lock

- Each menu icon on the left changes to the one on the right when selected.

Handset screen saver (Colour display models only)

Important:

- Only KX-TGA591AL support this feature.

After 1 minute of inactivity, the handset enters screen saver mode if the handset is not on the base unit or charger. The display is turned off in order to preserve the life of the battery.

To cancel screen saver mode

To use the handset when it is in screen saver mode, first press **[OFF]** to turn the display on again.

Symbols used in these operating instructions

Symbol	Meaning
[] : button name/soft key name Example: Unit keys: [↶] , [OFF] Soft keys: [CID] , [MENU]	The words in the brackets indicate button names/soft key names on the handset and base unit.
→	Proceed to the next operation.
Example: “Ringer ID”	The words in quotations indicate the menu on the display.
Example: 1 [MENU] (middle soft key) → [#][1][2][1] 2 Select the desired setting. 3 [SAVE] → [OFF]	1 Press [MENU] (middle soft key), then press [#] , [1] , [2] , [1] . 2 Press [▲] or [▼] to select the desired setting. 3 Press [SAVE] , then press [OFF] .
Handset: [▲] [▼]	Monochrome display models (KX-TG5961AL/KX-TGA590AL): Press up or down on the handset navigator key. Colour display models (KX-TGA591AL): Push the joystick up or down.
Handset: [◀] [▶]	Monochrome display models (KX-TG5961AL/KX-TGA590AL): Press left or right on the handset navigator key. Colour display models (KX-TGA591AL): Push the joystick left or right.
Base unit: [▲] [▼] [◀] [▶]	Press up, down, left, or right on the base unit navigator key.

Setting the unit before use

Important:

- To programme features by scrolling through the display menus, see page 40.

Date and time

Set the correct date and time.

Handset

- 1** **[MENU]** (middle soft key) → **[#][1][0][1]**
- 2** Enter the current day, month, and year by selecting 2 digits for each.
Example: 15, August 2006
[1][5] [0][8] [0][6]
- 3** Enter the current hour and minute (12-hour clock format) by selecting 2 digits for each.
Example: 9:30
[0][9] [3][0]
- 4** Press **[AM/PM]** to select “**AM**” or “**PM**”.
→ **[SAVE]** → **[OFF]**

Note:

- If you make a mistake when entering the date and time, press **[◀]**, **[▶]**, **[▲]**, or **[▼]** to move the cursor, then make the correction.

Making calls

Using the handset

- 1 Lift the handset and dial the phone number.
 - To correct a digit, press **[CLEAR]**.
- 2 Press **[↶]** or **[CALL]**.
- 3 When you finish talking, press **[OFF]** or place the handset on the base unit or charger.

Note:

- The IN USE indicator on the base unit lights when someone is talking on the handset or another phone.

Using the speakerphone

- 1 Lift the handset, dial the phone number, and press **[⇐]**.
 - Speak alternately with the other party.
- 2 When you finish talking, press **[OFF]**.

Note:

- Use the speakerphone in a quiet environment.
- To switch to the receiver, press **[↶]**.

Adjusting the receiver/speaker volume

Press **[▲]** or **[▼]** repeatedly while talking.

Making a call using the redial list

The last 10 phone numbers dialed are stored in the redial list.

1 **[REDIAL]**

- 2 Press **[▲]** or **[▼]** to select the desired number.

3 **[↶]**

Note:

- The caller's name is not stored in the redial list when calling back from the caller list.

Erasing a number in the redial list

1 **[REDIAL]**

- 2 Press **[▲]** or **[▼]** to select the desired number. → **[ERASE]**

3 **"Yes" → [SELECT] → [OFF]**

PAUSE button (for PBX/long distance service users)

A pause is sometimes required when making calls using a PBX or long distance service. When storing a calling card access number and/or PIN in the phonebook, a pause is also needed (page 34).

For example, if you need to dial the line access number "9" when making outside calls with a PBX:

- 1 **[9] → [PAUSE] →** Dial the phone number.

2 **[↶]**

Note:

- A 3.5 second pause is inserted each time **[PAUSE]** is pressed. Press repeatedly to insert longer pauses.

Using the base unit

1 [SP-PHONE]

2 Dial the phone number.

3 When the other party answers, speak into the MIC.

- Speak alternately with the other party.

4 When you finish talking, press **[SP-PHONE]**.

Note:

- Use the speakerphone in a quiet environment.
- While on a call, you can switch from the base unit to the handset:
 - Press **[↶]** on the handset, then press **[SP-PHONE]** on the base unit.
 - If the handset is on the base unit, simply lift it.

Adjusting the speaker volume

Press **[▲]** or **[▼]** repeatedly while talking.

Redialling the last number dialled [SP-PHONE] → [REDIAL]

Answering calls

When a call is being received, the ringer indicator on the handset and the IN USE indicator on the base unit flash rapidly.

Using the handset

1 Lift the handset and press **[↶]** or **[↷]**.

- You can also answer the call by pressing any button except joystick, navigator key, or **[OFF]**. (**Any key talk feature**)

2 When you finish talking, press **[OFF]**.

Note:

- You can change the ringer indicator light colour (page 45) and the ringer tone (page 47). You can also adjust the handset ringer volume (page 45).

Auto talk

This feature allows you to answer a call by simply lifting the handset off the base unit or charger. You do not need to press **[↶]**. To activate this feature, see page 44.

Note:

- If you subscribe to Caller ID service and want to view the caller's information after lifting up the handset to answer a call, leave this feature off.

Temporary ringer off

While the handset is ringing for a call, you can turn the ringer off temporarily by pressing **[⌂]** or **[OFF]**.

Using the base unit

- 1 **[SP-PHONE]**
- 2 Speak into the MIC.
- 3 When you finish talking, press **[SP-PHONE]**.

Adjusting the ringer volume

Press **[▲]** or **[▼]** repeatedly to select the desired volume when in standby mode.

- To turn the ringer off, press and hold **[▼]** until the unit beeps.
- To stop ringing, press **[0]**.

Setting the ringer tone

There are 3 tones and 3 melodies.

- 1 Press **[▲]** or **[▼]**.
- 2 Within 10 seconds, press **[◀]** or **[▶]** repeatedly to select the desired tone.
 - To stop ringing, press **[0]**.

Note:

- If you select a melody for the base unit's ringer tone, the ringer continues to sound for several seconds if:
 - the caller hangs up before you answer the call.
 - another person answers the call using another phone connected to the same line.

Useful features

Useful features during a call

HOLD button

This feature allows you to put an outside call on hold.

Handset

- 1 Press **[HOLD]** during an outside call.
 - To transfer the call to the base unit or another handset, continue from step 2, "Transferring calls", page 56.
- 2 Press **[HOLD]** again.
 - To release the hold, press **[↶]**.
 - The base unit user can take the call by pressing **[SP-PHONE]**.
 - Another handset user can take the call by pressing **[↶]**.

Base unit

Press **[HOLD]** during an outside call.

- To release the hold, press **[SP-PHONE]**.
- Handset users can take the call by pressing **[↶]**.

Note for handset and base unit:

- While an outside call is on hold, the IN USE indicator on the base unit flashes.
- If another phone is connected to the same line (page 14), you can also take the call by lifting its handset.
- If a call is kept on hold for more than 9 minutes, an alarm tone starts to sound. After 1 additional minute on hold, the call is disconnected.

Mute

While mute is turned on, you can hear the other party, but the other party cannot hear you.

Handset

To mute your voice, press **[MUTE]**.

- To return to the conversation, press **[MUTE]** or **[↶]**.

Note:

- **[MUTE]** is a soft key visible on the handset display during a call.

Base unit

To mute your voice, press **[MUTE]**.

- To return to the conversation, press **[MUTE]** or **[SP-PHONE]**.

RECALL button

Pressing **[RECALL]** allows you to use special features of your host PBX such as transferring an extension call, or accessing optional telephone services such as Call Waiting.

Note:

- To change the recall time, see page 45.

Handset clarity booster

This feature can improve sound clarity when the handset is used in an area where there may be interference. During an outside call, this feature is turned on automatically when necessary. You can also turn this feature on or off manually.

- 1 Press **[MENU]** during an outside call.

- 2 Press **[2]** to select “**Booster on**” or “**Booster off**”.

Note:

- When this feature is turned off manually during a call, it does not turn on automatically during the same call.
- While this feature is turned on;
 - the battery operating time is shortened (page 16).
 - the maximum number of extensions that can be used at a time may decrease.

Handset voice enhancer

This feature can simulate a band signal above the normal bandwidth limitations, achieving a sound which is close to the actual voice. You can turn this feature on or off, depending on the circumstance.

- 1 Press **[MENU]** during an outside call.

- 2 Press **[3]** to select “**Voice enhancer**” or “**V.E. off**”.

- When this feature is turned on, **VE** is displayed.

Note:

- Depending on the condition and quality of your telephone line, this feature may emphasise existing line noise. If it becomes difficult to hear, turn this feature off.

Making/Answering Calls

Call share

This feature allows the handset and base unit to join an existing outside call.

Handset

To join the conversation, press **[📞]** when the other extension is on an outside call.

Base unit

To join the conversation, press **[SP-PHONE]** when the handset is on an outside call.

Note for handset and base unit:

- A maximum of 4 parties (including 1 outside party) can join a conversation using 3 extensions.

Call privacy

Call privacy allows you to prevent other users from joining your conversations with outside callers. To allow other users to join your conversations, leave this feature off.

Handset

- 1 Press **[MENU]** during an outside call.
- 2 Press **[1]** to select “Privacy on” or “Privacy off”.
 - When this feature is turned on, “PRIV.” is displayed.

Note:

- This feature will turn off after you hang up the call.

Dial lock

This feature prohibits making outside calls. The default setting is OFF.

Important:

- When dial lock is turned on, only phone numbers stored in the phonebook as emergency numbers (numbers stored with a # at the beginning of the name) can be dialed using the phonebook (page 32). We recommend storing emergency numbers in the phonebook before using this feature.
- When dial lock is turned on, you cannot store, edit, or erase items in the phonebook.

To turn dial lock on

Use either the handset or base unit to turn the dial lock on for all units at once.

Handset

- 1 **[MENU]** (middle soft key) → **[#][2][5][1]**
- 2 Enter a 4-digit password.
 - This password is required when turning dial lock off. We recommend writing the password down.
- 3 **[SAVE]** → **[YES]** → **[OFF]**

Base unit

- 1 **[DIAL LOCK]**
- 2 Enter a 4-digit password.
 - This password is required when turning dial lock off. We recommend writing the password down.
- 3 **[#]**
- 4 Enter the password again.
- 5 **[DIAL LOCK]**

- If the base unit beeps 3 times, the wrong password was entered in step 4. Start again from step 1.

To turn dial lock off

Use either the handset or base unit to turn the dial lock off for all units at once.

Handset

- 1 [MENU]** (middle soft key) →
[#][2][5][1]
- 2** Enter the same password that was entered when dial lock was turned on.
- 3 [SAVE] → [YES] → [OFF]**

Base unit

- 1 [DIAL LOCK]**
- 2** Enter the same password that was entered when dial lock was turned on.
- 3 [DIAL LOCK]**
 - If you entered the wrong password, the base unit beeps 3 times. Start again from step 1.

Note for handset and base unit:

- If you forget the password, consult your nearest Panasonic service centre.

Handset phonebook

You can add up to 50 items to the handset phonebook and search for phonebook items by name.

Important:

- Caller ID subscribers can use ringer ID and light-up ID features (page 37).
- Colour display models only (KX-TGA591AL):
 - Caller ID subscribers can use picture ID feature (page 38).
 - You can also create and edit phonebook items using your computer and send them to the handset. Refer to the help section of the GIGARANGE USB Utility application for more information.

Adding items to the handset phonebook

Monochrome display models:
KX-TG5961AL/KX-TGA590AL

1 [] (right soft key)

2 [ADD]

3 Enter the name (max. 16 characters; page 32). → [OK]

4 Enter the phone number (max. 32 digits). → [OK]

- If you do not need to assign the ringer ID and light-up ID, go to step 11.

5 "Set Ringer ID" → [SELECT]

6 Select the desired item.

No Ringer ID	Turns the ringer ID off. Press [SELECT], then go to step 9.
Tone & Melody	Tone and melodies stored in the handset at the time of purchase.
Custom ring	Melodies you stored in the handset (page 47). 2 melodies are already stored at the time of purchase (page 47).

7 [SELECT]

8 Select the desired ringer ID (page 37). → [OK]

9 "Set Light-up ID" → [SELECT]

10 Select the desired light-up ID (page 37). → [OK]

11 [SAVE]

- To add other items, repeat from step 3.

12 [OFF]

Note:

- In step 2, you can also press [MENU] → "New entry" → [SELECT] instead of pressing [ADD].
- To assign a melody in "Custom ring" as ringer ID, you can record it from an audio device (page 47).
- If you select "No Ringer ID" (default), the handset uses the ringer tone you selected on page 45 when a call is received from that caller.

- If you select “**No Light-up ID**” (default), the handset uses the ringer indicator colour you selected on page 45 when a call is received from that caller.

Colour display models:
KX-TGA591AL

1 [] (right soft key)

2 [**ADD**]

3 Enter the name (max. 16 characters; page 32). → [**OK**]

4 Enter the phone number (max. 32 digits). → [**OK**]

- If you do not need to assign the ringer ID, light-up ID, and picture ID, go to step 15.

5 “**Set Ringer ID**” → [**SELECT**]

6 Select the desired item.

No Ringer ID	Turns the ringer ID off. Press [SELECT], then go to step 9.
Tone & Melody	Tone and melodies stored in the handset at the time of purchase.
Custom ring	Melodies you stored in the handset (page 47). 2 melodies are already stored at the time of purchase (page 47).

7 [**SELECT**]

8 Select the desired ringer ID (page 37). → [**OK**]

9 “**Set Light-up ID**” → [**SELECT**]

10 Select the desired light-up ID (page 37). → [**OK**]

11 “**Set Picture ID**” → [**SELECT**]

12 Select the desired item.

No Picture ID	Turns the picture ID off. Press [SELECT], then go to step 15.
Sample pictures	Images stored in the handset at the time of purchase.
My pictures	Images you stored in the handset.

13 [**SELECT**]

14 Select the desired picture ID (page 38). → [**OK**]

15 [**SAVE**]

- To add other items, repeat from step 3.

16 [**OFF**]

Note:

- In step 2, you can also press [**MENU**] → “**New entry**” → [**SELECT**] instead of pressing [**ADD**].
- To assign a melody in “**Custom ring**” as ringer ID, you can record it from an audio device (page 47) or copy it from your computer (refer to the help section of the GIGARANGE USB Utility application).
- If you select “**No Ringer ID**” (default), the handset uses the ringer tone you selected on page 45 when a call is received from that caller.

Phonebook

- If you select “**No Light-upID**” (default), the handset uses the ringer indicator colour you selected on page 45 when a call is received from that caller.
- To assign an image in “**My pictures**” as picture ID, you can copy it from your computer (refer to the help section of the GIGARANGE USB Utility application).

To store emergency numbers

Emergency numbers are numbers stored in the phonebook that can be dialled using the phonebook even when dial lock is turned on (page 28).

To store a number as an emergency number, add # at the beginning of the name (see “Adding items to the handset phonebook”, page 30).

Character table for entering names

Key	Character
[1]	# & ' () * , - . / 1
[2]	a b c A B C 2
[3]	d e f D E F 3
[4]	g h i G H I 4
[5]	j k l J K L 5
[6]	m n o M N O 6
[7]	p q r s P Q R S 7
[8]	t u v T U V 8
[9]	w x y z W X Y Z 9
[0]	Space 0
[*]	#

Note:

- To enter another character that is located on the same dial key, first press

[>] to move the cursor to the next space.

Editing/correcting a mistake

Press [←] or [→] to move the cursor to the character or number you want to erase, then press [CLEAR]. Enter the appropriate character or number.

Note:

- Press and hold [CLEAR] to erase all characters or numbers.

Finding and calling a handset phonebook item

Phonebook items can be searched for alphabetically by scrolling through the phonebook items or by initial.

Searching for a name alphabetically by scrolling through all items

- 1 [🔍] (right soft key) → [SEARCH]
- 2 Press [▲] or [▼] to select the desired item.
- 3 Press [📞] or [CALL] to dial the phone number.

Searching for a name by initial

- 1 [🔍] (right soft key) → [SEARCH]
- 2 Press the dial key ([0] – [9], or [*]) that corresponds to the first letter you are searching for (see the character table, page 32).

Example: “LISA”

Press **[5]** repeatedly to display the first phonebook entry starting with the initial "I" and go to step 3.

- If there is no item corresponding to the letter you selected, the next item is displayed.

3 Press **[v]** to select the desired item.

4 Press **[↶]** or **[CALL]** to dial the phone number.

Editing items in the handset phonebook

1 **[📖]** (right soft key) → **[SEARCH]**

2 Find the desired item (page 32). → **[EDIT]**

3 Select the information you want to edit.

To change the name or phone number	Select the name or phone number. → [SELECT] → Edit the information (page 32). → [OK]
To change the ringer ID	Select the current ringer ID. → [SELECT] → Select the desired item.*1 → [SELECT] → Select the desired ringer ID. → [OK] *1 To turn the ringer ID off, select "No Ringer ID". → [SELECT]

To change the light-up ID	Select the current light-up ID. → [SELECT] → Select the desired light-up ID.*2 → [OK] *2 To turn the light-up ID off, select "No Light-up ID".
To change the picture ID (Colour display models only: KX-TGA591AL)	Select the current picture ID. → [SELECT] → Select the desired item.*3 → [SELECT] → Select the desired picture ID. → [OK] *3 To turn the picture ID off, select "No Picture ID". → [SELECT]

4 **[SAVE]** → **[OFF]**

Erasing an item in the handset phonebook

1 **[📖]** (right soft key) → **[SEARCH]**

2 Find the desired item (page 32).

3 **[MENU]** → "Erase" → **[SELECT]**

4 "Yes" → **[SELECT]** → **[OFF]**

Chain dial

This feature allows you to dial phone numbers in the handset phonebook while you are on a call. This feature can be used, for example, to dial a calling card access number or bank account PIN that you have stored in the handset phonebook, without having to dial manually.

- 1 During an outside call, press **[BOOK]**.
- 2 Find the desired item (page 32). → **[CALL]**

Note:

- When storing a calling card access number and your PIN in the phonebook as one phonebook item, press **[PAUSE]** to add pauses after the number and PIN as necessary (page 24).

Copying handset phonebook items

You can copy one or all of the phonebook items from the handset to the phonebook of a compatible Panasonic handset (KX-TGA590AL/KX-TGA591AL).

Important:

- Ring ID and light-up ID for phonebook items are not copied.
- Colour display models only (KX-TGA591AL):
Picture ID for phonebook items is not copied.

Copying an item

- 1 **[BOOK]** (right soft key) → **[SEARCH]**
- 2 Find the desired item (page 32). → **[MENU]**

- 3 "Copy" → **[SELECT]**

- 4 Select the handset to copy to. → **[SEND]**

- To continue copying another item:
"Yes" → **[SELECT]** → Find the desired handset phonebook item.
→ **[SEND]**

- 5 Press **[OFF]** after the long beep.

Copying all items

- 1 **[BOOK]** (right soft key)

- 2 **[MENU]**

- 3 "Copy all items" → **[SELECT]**

- 4 Select the handset to copy to. → **[SEND]**

- 5 Press **[OFF]** after the long beep.

Base unit speed dialler

You can assign one phone number to each of the 10 dial keys ([0] – [9]) on the base unit.

Adding phone numbers to the speed dialler

Important:

- Before adding phone numbers, make sure the base unit is not being used.

1 [PROGRAM]

2 Enter the phone number (max. 32 digits).

- If a pause is required for dialling, press [PAUSE] where needed.
- If you misdial, press [PROGRAM] 2 times and repeat from step 1.

3 [PROGRAM]

4 Press a dial key ([0] – [9]).

Note:

- If a phone number is assigned to a dial key which already contains a phone number, the old number will be erased.
- We recommend you make a note of which phone numbers are stored in which dial keys.

PAUSE button (for PBX/long distance service users)

A pause is sometimes required when making calls using a PBX or long distance service.

For example, if you need to dial the line access number “9” when making outside calls with a PBX:

In step 2, press [9], [PAUSE], then enter the phone number.

Note:

- A 3.5 second pause is inserted each time [PAUSE] is pressed. Press repeatedly to insert longer pauses.

To erase a stored phone number

1 Press [PROGRAM] 2 times.

2 Press the desired dial key ([0] – [9]).

Calling someone with the speed dialler

1 [SP-PHONE] → [AUTO]

2 Press the desired dial key ([0] – [9]).

Note:

- Speed dial numbers assigned to the base unit dial keys can only be dialled from the base unit.

Using Caller ID service

This unit is Caller ID compatible. To use Caller ID features (such as displaying caller phone numbers), you must subscribe to Caller ID service. Consult your service provider/telephone company for details.

Caller ID features

When an outside call is being received, the calling party's telephone number is displayed.

Telephone numbers for the last 50 callers are logged in the caller list by the most recent call to the oldest.

- Generally caller information is displayed from the 2nd ring.
- If the unit cannot receive caller information, the following is displayed:
 - “**Out of area**”: The caller dialed from an area which does not provide Caller ID service.
 - “**Private caller**”: The caller requested not to send caller information.
- If the unit is connected to a PBX system, caller information may not be received properly. Consult your PBX supplier.
- If the name display service is available in your area, the display shows caller names. For further information, please contact your service provider/telephone company.

Missed calls

If a call is not answered, the unit treats the call as a missed call. “**Missed call**” is displayed on the handset display. This lets

you know if you should view the caller list to see who called while you were out. You can view the number of missed calls by pressing [**CID**] (left soft key).

Note:

- If you press [**CID**], then press [**OFF**] without viewing all missed calls in the caller list, “**Missed call**” disappears from the display. When you receive another new call, it is displayed again.

Phonebook name display

When caller information is received and it matches a phone number stored in the phonebook, the stored name is displayed and logged in the caller list.

Call waiting and Caller ID compatible

If you subscribe to Caller ID service, your handset displays the 2nd caller's information while talking. After you hear a call waiting tone, the caller's phone number will be displayed.

You can answer the 2nd call, keeping the 1st call on hold.

Follow your service provider/telephone company instructions using [**RECALL**].

- If the phone number is stored in the phonebook with its name, the caller's name will also be displayed.
- Please contact your service provider/telephone company for details and availability in your area.

For Caller ID Type II users

When you receive a 2nd call during a conversation, you will hear a signal tone following the call waiting tone and the

conversation will be interrupted or muted for a short period of time. This is not a fault of the product as these events are normal.

- The tones are generated by your service provider/telephone company.

Talking Caller ID

This feature lets you know who is calling without looking at the display. When a call comes in, the handset and base unit announce the caller's name displayed on the handset following every ring.

To use this feature, you must subscribe to Caller ID service of your telephone service provider.

Important:

- If Caller ID information is received and it matches a phone number stored in the phonebook or if the name display service is available in your area, the caller's name is displayed and announced.
- If the caller's phone number is stored in the phonebook of the extension number 1 handset, all handsets and the base unit announce the name stored in that phonebook following every ring.
- Name pronunciation may vary. This feature may not pronounce all names correctly.
- Caller ID supports names of up to 15 letters. If the caller's name has more than 15 letters, the name is not displayed or announced correctly.
- When you receive a call while on the phone, the 2nd caller's name is not announced even if you subscribe to both

Caller ID and Call Waiting with Caller ID services.

- The announcement is heard at the ringer volume (page 26, 45).
- This feature can be turned on or off (page 45).

Ringer ID

This feature can help you identify who is calling by using different ringers for different callers stored in the phonebook (page 30). You can assign a different ringer to each phonebook item. When a call is received from a caller stored in the phonebook, the assigned ringer rings after Caller ID information is displayed.

- The ringer may be changed after the 2nd ring.

Light-up ID

This feature can help you identify who is calling by using different ringer indicator colours for different callers stored in the handset phonebook (page 30). You can assign a different indicator colour to each handset phonebook item. When a call is received from a caller stored in the handset phonebook, the assigned indicator colour flashes after Caller ID information is displayed.

- The indicator colour may be changed after the 2nd ring.

Picture ID (Colour display models only)

Important:

- Only KX-TGA591AL support this feature.

This feature can help you identify who is calling by using different pictures for different callers stored in the handset phonebook (page 30). You can assign a different picture to each phonebook item. When a call is received from a caller stored in the phonebook, the assigned picture is displayed after Caller ID information is displayed.

Note:

- You can also download original images from your computer. Refer to the help section of the GIGARANGE USB Utility for details.

Caller list

Important:

- Only 1 person can access the caller list at a time.

Viewing the caller list and calling back

1 [CID] (left soft key)

2 Press [▼] to search from the most recent call, or [▲] to search from the oldest call.

3 [↶]

Note:

- If you do not want to dial the area codes when making calls from the Caller ID list, you can store the area codes which you want the unit to delete automatically (page 39).
- A “✓” is displayed in caller information which has already been viewed or answered by any handset.
- Monochrome display models only (KX-TG5961AL/KX-TGA590AL):
If an arrow (▶) is displayed after the number, the whole phone number is not shown. Press [▶] to see the remaining numbers. To return to the previous display, press [◀].

Storing your area code

We recommend storing your area code before using Caller ID (page 36). Calls from the same area will be recorded in the caller list without the area code. You do not have to remove it before calling back the caller or storing in the phonebook.

- 1 **[MENU]** (middle soft key) → **[#][2][5][5]**
- 2 Enter your area code (max. 8 digits).
 - To correct a digit, press **[◀]** or **[▶]** to move the cursor, then press **[CLEAR]**. Enter the correct number.

3 **[SAVE]** → **[OFF]**

To erase your area code

Press and hold **[CLEAR]** in step 2, press **[SAVE]**, then press **[OFF]**.

Editing a caller's phone number before calling back

You can edit a phone number in the caller list.

- 1 **[CID]** (left soft key)
- 2 Select the desired item. → **[EDIT]**
- 3 Add or erase digits to the beginning of the number as necessary.
 - To add a digit, press the desired dial key.
 - To erase a digit, press **[CLEAR]**.
- 4 **[↶]**

Storing caller information into the handset phonebook

- 1 **[CID]** (left soft key)
- 2 Select the desired item. → **[MENU]** → "Save phonebook" → **[SELECT]**
 - To edit the information, perform step 3, "Editing items in the handset phonebook", page 33.
- 3 **[SAVE]** → **[OFF]**

Erasing selected caller information

- 1 **[CID]** (left soft key)
- 2 Select the desired item.
- 3 **[ERASE]** → "Yes" → **[SELECT]** → **[OFF]**

Erasing all caller information

- 1 **[CID]** (left soft key)
- 2 **[ERASE]** → "Yes" → **[SELECT]**

Programmable settings

You can customise the unit by programming the following features using the handset. To access the features, there are 2 methods:

- scrolling through the display menus (page 40)
- using the direct commands (page 44)
- Mainly the direct command method is used in these operating instructions.
- To change the base unit ringer volume and tone, see page 26.

Programming by scrolling through the display menus

1 [MENU] (middle soft key)

2 Press **[▲]**, **[▼]**, **[◀]**, or **[▶]** to select the desired menu. → **[SELECT]**

- If there are sub-menu(s), press **[▲]** or **[▼]** to select the desired item. → **[SELECT]**

Example: To access the handset ringer volume setting

Press **[▲]**, **[▼]**, **[◀]**, or **[▶]** to select **♪**. → **[SELECT]**

Then press **[▲]** or **[▼]** to select **"Ringer volume"**. → **[SELECT]**

3 Press **[▲]** or **[▼]** to select the desired setting.

- This step may vary depending on the feature being programmed.


4 [SAVE] → [OFF]






Monochrome display models: KX-TG5961AL/KX-TGA590AL

- When you find **"*1"** or **"*2"** in the following table, refer to the note below.

***1** If you programme these settings using one of the handsets, you do not need to programme the same item using another handset.

***2** Use either the handset or base unit to turn the dial lock on/off for all units at once (page 28).

Main menu	Sub-menu 1	Sub-menu 2	Page
Voice Mail 	Store VM access# ^{*1}	–	52
	Message alert	–	53





Main menu	Sub-menu 1	Sub-menu 2	Page
Ringer setting 	Ringer volume	—	—
	Ringer tone	Tone & Melody	47
		Custom ring	47
	Custom ring	Record	47
		List	48
Ring colour	—	—	—
Phonebook 	—	—	30
Set date & time 	Date and time ^{*1}	—	23
	Time adjustment ^{*1}	—	—
Initial setting 	Dial lock ^{*2}	—	28
	Auto Intercom	—	55
	Talking CallerID	—	37
	Set area code	—	39
	LCD contrast	—	—
	Key tone	—	—
	Auto talk	—	25
	Set base unit	Talking CallerID ^{*1}	37
	Set tel line	Set dial mode ^{*1}	—
		Set recall time ^{*1}	—
		Set line mode ^{*1}	—
	Registration	HS registration	58
		Deregistration	58
	Set date & time	Date and time ^{*1}	23
		Time adjustment ^{*1}	—
	Handset name	—	49
Dial lock^{*2} 	—	—	28



Colour display models: KX-TGA591AL

● When you find “*1” or “*2” in the following table, refer to the note below.

*1 If you programme these settings using one of the handsets, you do not need to programme the same item using another handset.

*2 Use either the handset or base unit to turn the dial lock on/off for all units at once (page 28).

Main menu	Sub-menu 1	Sub-menu 2	Page
Voice Mail 	Store VM access# ^{*1}	—	52
	Message alert	—	53
Ringer setting 	Ringer volume	—	—
	Ringer tone	Tone & Melody	47
		Custom ring	47
	Custom ring	Record	47
		List	48
		Memory status	50
	Ring colour	—	—
Display setting 	Wallpaper	Turn off	50
		Set picture	50
		Memory status	50
	Appearance	—	—
	LCD contrast	—	—
Set date & time 	Date and time ^{*1}	—	23
	Time adjustment ^{*1}	—	—

Main menu	Sub-menu 1	Sub-menu 2	Page
Initial setting 	Dial lock ^{*2}	—	28
	Auto Intercom	—	55
	Talking CallerID	—	37
	Set area code	—	39
	Key tone	—	—
	Auto talk	—	25
	Set base unit	Talking CallerID ^{*1}	37
	Set tel line	Set dial mode ^{*1}	—
		Set recall time ^{*1}	—
		Set line mode ^{*1}	—
	Registration	HS registration	58
		Deregistration	58
	Set date & time	Date and time ^{*1}	23
		Time adjustment ^{*1}	—
	Handset name	—	49
Dial lock ^{*2} 	—	—	28

Programming using the direct commands

1 [MENU] (middle soft key) → **[⇐]**

2 Enter the desired feature code.

3 Enter the desired setting code.

- This step may vary depending on the feature being programmed.

4 [SAVE] → [OFF]

Note:

- In the following table, < > indicates the default setting.
- If you make a mistake or enter the wrong code, press **[OFF]**, then start again from step 1.

Feature	Feature code	Setting code	System setting ^{*1}	Page
Auto talk ^{*2}	[2][0][0]	[1]: On [0]: <Off>	—	25
Auto Intercom	[2][7][3]	[1]: On (Ringer On) [2]: On (Ringer Off) [0]: <Off>	—	55
Custom ring (Customised ringer tone for handset)	[1][6][6]	—	—	47
Dial lock ^{*3}	[2][5][1]	(page 28)	●	—
Date and time	[1][0][1]	—	●	23
Deregistration	[1][3][1]	—	—	58
Handset name	[1][0][4]	—	—	49
HS registration (Handset registration)	[1][3][0]	—	—	58
Key tone ^{*4}	[1][6][5]	[1]: <On> [0]: Off	—	—
LCD contrast (Display contrast)	[1][4][5]	[1]–[6]: Level 1–6 <3>	—	—
Message alert	[3][4][0]	[1]: On [0]: <Off>	—	53

Feature	Feature code	Setting code	System setting ^{*1}	Page
Ring colour (Ringer indicator colour)	[2][3][5]	[1]: <Colour1> [2]: Colour2 [3]: Colour3 [4]: Multicolour	—	—
Ringer tone (Handset)	[1][6][1]	—	—	47
Ringer volume (Handset)	[1][6][0]	[1]–[6]: Level 1–6 <6> [0]: Off	—	—
Set area code	[2][5][5]	(page 39)	—	—
Set dial mode	[1][2][0]	(page 66)	●	—
Set line mode ^{*5}	[1][2][2]	[1]: A [2]: 	●	—
Set recall time ^{*6}	[1][2][1]	[1]: 700 ms [2]: 600 ms [3]: 400 ms [4]: 300 ms [5]: 250 ms [6]: 110 ms [7]: <100 ms> [8]: 90 ms	●	—
Store VM access#	[3][3][1]	—	●	52
Talking CallerID (Handset)	[1][6][2]	[1]: <On> [0]: Off	—	37
Talking CallerID (Base unit)	[*][1][6] [2]	[1]: <On> [0]: Off	●	37
Time adjustment ^{*7} (Caller ID subscribers only)	[2][2][6]	[1]: <Caller ID[auto]> [2]: Manual	●	—

*1 If “System setting” column is checked, you do not need to programme the same item using another handset.

*2 If you subscribe to Caller ID service and want to view the caller's information after lifting up the handset to answer a call, turn off this feature.

*3 Use either the handset or base unit to turn the dial lock on/off for all units at once (page 28).

*4 Turn this feature off if you prefer not to hear key tones while you are dialling or pressing any keys, including confirmation tones and error tones.

*5 Generally, the line mode setting should not be adjusted. If **IN USE** is not displayed or the IN USE indicator on the base unit does not light properly when another phone connected to the same line is in use, you need to change the line mode to “A”.

Programming

*6 The recall time depends on your telephone exchange or host PBX. Consult your PBX supplier if necessary.

You can access your service provider/telephone company “Call Waiting” service by having the recall time set at 100 ms, and then follow your service provider/telephone company “Call Waiting” instructions to operate this service.

*7 This feature allows the unit to automatically adjust the date and time setting when caller information is received. To use this feature, set the date and time first.

Colour display models only: KX-TGA591AL

Feature	Feature code	Setting code	System setting ^{*1}	Page
Appearance (Display colour)	[1][8][2]	[1]: <Colour1> [2]: Colour2 [3]: Colour3 [4]: Colour4 [5]: Colour5	—	—
Memory status	[6][7][0]	—	—	50
Wallpaper	[1][8][1]	—	—	50

*1 If “System setting” column is checked, you do not need to programme the same item using another handset.

Customising handset ringer tone and display

Handset ringer tone (for outside calls)

You can change the ringer tone heard when an outside call is received.

- You can record melodies for the handset ringer tone from an audio device (page 47).
- Colour display models only (KX-TGA591AL):
You can copy melodies (in WAV file format using a computer) to be used for the handset ringer tone. Refer to the help section of the GIGARANGE USB Utility application for more information.

Handset

1 [MENU] (middle soft key) → **[#][1][6][1]**

2 Select the desired item. → **[SELECT]**

Tone & Melody	Tones and melodies stored in the handset at the time of purchase.
Custom ring	Melodies you stored in the handset (page 47). 2 melodies are already stored at the time of purchase.

3 Select the desired item. → **[SAVE]**
→ **[OFF]**

Note:

- If you select a melody for the handset ringer tone, the ringer continues to sound for several seconds if:
 - the caller hangs up before you answer the call.
 - another person answers the call using another phone connected to the same line.
- The preset song “**Demo1**” in this product is used with the permission of © 2005 Speed Crazy.
- The preset song “**Demo2**” in this product is used with the permission of © 2005 M-ZoNE Co., Ltd.

Recording melodies from an audio device for ringer tones using the handset (“Custom ring”)

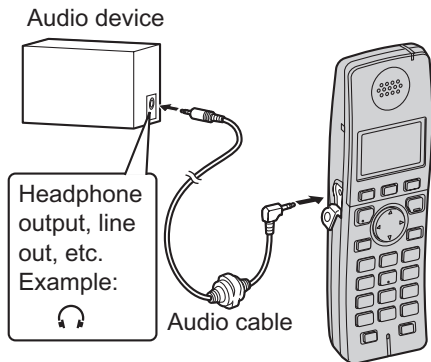
You can record melodies (max. 30 seconds each) from an audio device by connecting the included audio cable. These melodies can be assigned as the handset ringer tone (page 47, 48) and the ringer ID (page 37) for phone numbers stored in the handset phonebook.

Important:

- If a call is received while a melody is being recorded or played back, recording or playback stops automatically. Disconnect the audio cable from the handset to answer the call.

Programming

- 1 Connect the handset to the audio device (such as a CD player or computer) using the included audio cable.



- Handset shown is KX-TGA590AL.

- 2 **[MENU]** (middle soft key) → **[#][1][6][6]**
- 3 **"Record"** → **[SELECT]**
- 4 Start playing the audio device.
- 5 Press **[REC.]** to start recording.
- 6 To stop recording, press **[STOP]**.
 - To listen to the recording, select **"Playback"**, then press **[SELECT]**.
 - To re-record, select **"Retry"**, press **[SELECT]**, then start from step 3.
- 7 **"Save"** → **[SELECT]**
- 8 Enter the desired name (max. 14 characters; page 32).
- 9 **[SAVE]** → **[OFF]**
- 10 Disconnect the audio cable from the handset.

Note:

- Monochrome display models (KX-TG5961AL/KX-TGA590AL):
The total recording time is about 90 seconds.
- Colour display models (KX-TGA591AL):
The total recording time is about 7 minutes. The recording time may decrease depending on the size of images and melodies already stored in the handset.

Assigning a customised ring to the handset

Handset

- 1 **[MENU]** (middle soft key) → **[#][1][6][6]**
- 2 **"List"** → **[SELECT]**
- 3 Select the desired item. → **[MENU]**
- 4 **"Set ringer tone"** → **[SELECT]** → **[OFF]**

Changing the name of a melody

Handset

- 1 **[MENU]** (middle soft key) → **[#][1][6][6]**
- 2 **"List"** → **[SELECT]**
- 3 Select the desired item. → **[MENU]**
- 4 **"Rename"** → **[SELECT]**
- 5 Edit the name (max. 14 characters; page 32). → **[SAVE]** → **[OFF]**

Erasing a melody**Handset**

- 1** **[MENU]** (middle soft key) → **[#][1][6][6]**
- 2** **"List"** → **[SELECT]**
- 3** Select the desired item. → **[MENU]**
- 4** **"Erase"** → **[SELECT]**
- 5** **"Yes"** → **[SELECT]** → **[OFF]**

Note:

- If the erased melody was used for the handset ringer tone (page 47), **"Tone 1"** (default) is used instead of that melody.
- If the erased melody was assigned to certain callers as ringer ID (page 37), the ringer ID assignment is cancelled, and the handset ringer tone (page 47) is used instead of that song.

Changing handset name

Each handset can be given a customised name ("Bob", "Kitchen", etc.), this is useful when you make intercom calls between handsets. The default setting is **"Handset 1"** to **"Handset 8"**.

You can also select whether or not the handset name is displayed in standby mode. The default setting is **"off"**.

Handset

- 1** **[MENU]** (middle soft key) → **[#][1][0][4]**
- 2** Enter the desired name (max. 10 characters; page 32).
 - If not required, go to step 3.
- 3** **[OK]**
- 4** Select the desired setting. → **[SAVE]** → **[OFF]**

Handset wallpaper (Colour display models only)

You can select the “wallpaper” pattern shown on the handset display in standby mode. There are 3 preset patterns.

Important:

- Only KX-TGA591AL support this feature.
- You can also download original images from your computer. Refer to the help section of the GIGARANGE USB Utility for details.

Handset

1 **[MENU]** (middle soft key) → **[#][1][8][1]**

2 “Set picture” → **[SELECT]**

- To turn this feature off, select “Turn off”. → **[SELECT]** → **[OFF]**

3 Select the desired item. → **[SELECT]**

Sample pictures	Images stored in the handset at the time of purchase.
My pictures	Images you stored in the handset using your computer.

4 Select the desired image.

- To view the image list, press **[LIST]**.
To return to the image view, press **[VIEW]**.

5 **[SAVE]** → **[OFF]**

Note:

- The preset patterns “Wallpaper1” and “Wallpaper2” in this product are used

with permission of © 2005 Digital Archive Japan, Inc.

- The preset pattern “Wallpaper3” in this product is used with permission of © 2005 MIXA Co., Ltd.

Memory status (Colour display models only)

Important:

- Only KX-TGA591AL support these features.

You can confirm the amount of handset memory used for your images and melodies. The images and melodies are stored in the same memory (in addition to the preset images and melodies). A maximum of 118 individual files can be stored. The number of stored images and melodies may decrease depending on the size of each file, the number of files, etc.

Memory usage

File type	Quantity	Memory used
Image (wallpaper)	1 image	about 2 %
Image (Picture ID)	3 images	about 1 %
Melody	30 seconds	about 8 %

Viewing the handset memory status

Handset

- 1 **[MENU]** (middle soft key) → **[#][6][7][0]**
- 2 When finished, press **[OFF]**.

Erasing melodies and images

Handset

- 1 **[MENU]** (middle soft key) → **[#][6][7][0]**
- 2 **[MENU]**
- 3 Select the desired option.

To erase only one melody	"1 Custom ring" → [SELECT] → Select the desired item. → [ERASE]
To erase only one image	"1 picture" → [SELECT] → Select the desired item. → [ERASE]
To erase all melodies	"All Custom ring" → [SELECT]
To erase all images	"All pictures" → [SELECT]

- 4 "Yes" → **[SELECT]**
- 5 When finished, press **[OFF]**.

Note:

- If the erased melody was used for the handset ringer tone (page 47), "Tone 1" (default) is used instead of that melody.
- If the erased melody was assigned to certain callers as ringer ID (page 37), the

ringer ID assignment is cancelled, and the handset ringer tone (page 47) is used instead of that song.

- If the erased image was selected for the wallpaper, the sample picture "Wallpaper1" is used instead of that image.
- If the erased image was assigned to handset phonebook items, the picture ID assignment is cancelled.

Using Voice Mail service

Voice Mail is an automatic answering service offered by your telephone service provider. After you subscribe to this service, the telephone service provider's Voice Mail system will answer calls for you when you are unavailable to answer the phone or when your line is busy. Messages are recorded by the telephone service provider, not your telephone.

Important:

- Please contact your telephone service provider for details and availability of this service in your area.

Storing the Voice Mail (VM) access number

In order to listen to your Voice Mail messages, you must dial your service provider/telephone company's Voice Mail access number. Once you have stored your Voice Mail access number, you can dial it automatically (page 52).

Handset

- 1 **[MENU]** (middle soft key) → **[#][3][3][1]**
- 2 Enter your access number (max. 32 digits). → **[SAVE]** → **[OFF]**

Note:

- When storing your Voice Mail access number and your mailbox password, press **[PAUSE]** to add pauses (page 24) between the access number and the password as necessary. Consult your

telephone service provider for the required pause time.

Example:

<u>1-222-333-4444</u>	<u>PPPP</u>	<u>8888</u>
VM access number	Pauses	Password

To erase the Voice Mail access number

- 1 **[MENU]** (middle soft key) → **[#][3][3][1]**
- 2 Press and hold **[CLEAR]** until all digits are erased.
- 3 **[SAVE]** → **[OFF]**

Listening to Voice Mail messages

The unit lets you know that you have new Voice Mail messages in the following ways:

- “**New Voice Mail**” is displayed on the handset.
- The message indicator on the handset slowly flashes blue if the message alert feature is turned on (page 53).

Handset

- 1 Press **[↶]**, then press **[VM]** within 15 seconds.
 - If **[VM]** is not displayed, the Voice Mail access number has not been stored. Store the number (page 52).OR
 - **[MENU]** (middle soft key) → **[VM]**
- 2 Follow the prerecorded instructions.

3 Press **[OFF]** when finished.**Note:**

- If the handset still indicates there are new messages even after you have listened to all new messages, turn it off by pressing and holding **[OFF]** on the handset until the handset beeps.

Message alert

Message alert controls the message indicator on the handset once it turns on, message indicator slowly flashes blue when there are new recorded messages in the Voice Mail system. The default setting is "Off".

Handset

1 **[MENU]** (middle soft key) →
[⇨][3][4][0]

2 Select the desired setting. → **[SAVE]**
→ **[OFF]**

Note:

- While message alert feature is on, battery operating time is shortened (page 16).
- If you have new messages and message alert feature is on, the message indicator does not indicate battery charge status (page 15). The indicator slowly flashes blue until you listen to all new messages.

Intercom

Intercom calls can be made:

- between the handset and base unit
- between handsets

Note:

- If you receive an outside call while talking on the intercom, you hear 2 tones. To answer the call with the handset, press **[OFF]**, then press **[↶]**. To answer the call with the base unit, press **[SP-PHONE]** 2 times.
- You can locate a misplaced handset by paging it (handset locator).

Making an intercom call

Handset

- 1 [INTERCOM]**
- 2** Select the desired unit. → **[CALL]**
 - The destination unit beeps for 1 minute.
 - To stop paging, press **[OFF]**.
- 3** When you finish talking, press **[OFF]**.

Note:

- If a USB adaptor (KX-TGA595AL) is registered to the base unit, its extension number is not displayed on the handset.
- If a cordless camera (KX-TGA593AL) is registered to the base unit, its extension number is not displayed on the monochrome display models (KX-TG5961AL/KX-TGA590AL).

Base unit

- 1 [INTERCOM]**
- 2** To page a specified handset, enter its extension number (**[1] – [8]**).
To page all handsets, press **[0]**.
 - The destination unit(s) beeps for 1 minute.
 - To stop paging, press **[INTERCOM]**.
- 3** When you finish talking, press **[SP-PHONE]**.

Answering an intercom call

Handset

- 1** Press **[↶]** or **[↷]** to answer the page.
- 2** When you finish talking, press **[OFF]**.

Base unit

- 1** Press **[SP-PHONE]** or **[INTERCOM]** to answer the page.
- 2** When you finish talking, press **[SP-PHONE]**.

Note for handset and base unit:

- When the ringer volume is set to off, the handset or the base unit rings at the low level for intercom calls.

Auto intercom/Room monitor

This feature allows you to:

- answer an intercom call without pressing any buttons on the handset.
- listen to the sound in a room where the handset is located.

Turning auto intercom on/off

“off” (Default): Turns this feature off.

“On (Ringer On)”: When an intercom call is received, the handset rings 2 times then the speakerphone is automatically turned on.

“On (Ringer Off)”: When an intercom call is received, the handset does not ring and the speakerphone is automatically turned on. This allows you to easily monitor a baby’s room, for example, from different areas of the house.

Handset

1 [MENU] (middle soft key) →
[#][2][7][3]

2 Select the desired setting.

3 [SAVE] → [OFF]

Note:

- This feature cannot be used when the base unit is paging all handsets, or when receiving a transferred call.

Answering an intercom call using auto intercom

Handset

1 When you are paged by the base unit or another handset, speak into the microphone.

- To switch to the receiver, press **[↶]**.

2 To end the intercom, press **[OFF]**.

Note:

- Auto intercom cannot be used when:
 - all handsets are being paged by the base unit.
 - your handset is receiving a transferred outside call.

Monitoring audio in a room

With a handset or the base unit, you can listen to the sound in a room where another handset is located.

Important:

- Before using this feature, set auto intercom of the destination handset to **“On (Ringer Off)”** to allow access by other handsets.

Handset

1 Call the destination handset (page 54).

- You can listen to the audio.

2 To mute your sound output, press **[MUTE]** if necessary.

3 Press **[OFF]** to stop monitoring.

Base unit

1 Call the destination handset (page 54).

- You can listen to the audio.

2 To mute your sound output, press **[MUTE]** if necessary.

3 Press **[INTERCOM]** to stop monitoring.

Transferring calls

Outside calls can be transferred between the handset and base unit, and between 2 handsets.

Handset

- 1 During an outside call, press **[INTERCOM]** to put the call on hold.
- 2 Select the desired unit. → **[CALL]**
- 3 Wait for the paged party to answer.
 - If the paged party does not answer, press **[↶]** to return to the outside call.
- 4 To complete the transfer, press **[OFF]**.
 - The outside call is being routed to the unit.

Base unit

- 1 During an outside call, press **[INTERCOM]** to put the call on hold.
- 2 To page a specified handset, enter its extension number (**[1] – [8]**).
To page all handsets, press **[0]**.
 - Even if you call all handsets, only the handset user who answers first can take the transferred call.
- 3 Wait for the paged party to answer.
 - If the paged party does not answer, press **[INTERCOM]** to return to the outside call.
- 4 To complete the transfer, press **[SP-PHONE]**.

- The outside call is being routed to the handset.

Answering transferred calls

Handset

Press **[↶]** to answer the page.

Base unit

Press **[SP-PHONE]** to answer the page.

Note for handset and base unit:

- After the paging party disconnects, you can talk to the outside caller.

Conference calls

The handset and base unit, or 2 handsets can have a conference call with an outside party.

Handset

- 1 During an outside call, press **[INTERCOM]** to put the call on hold.
- 2 Select the desired unit. → **[CALL]**
- 3 Wait for the paged party to answer.
- 4 When the paged party answers, press **[CONF]** to make a conference call.
 - To leave the conference, press **[OFF]**. The other parties can continue the conversation.
 - To put the outside call on hold, press **[HOLD]**. To resume the conference, press **[CONF]**.

Base unit

- 1 During an outside call, press **[INTERCOM]** to put the call on hold.
- 2 To page a specified handset, enter its extension number (**[1] – [8]**). To page all handsets, press **[0]**.
- 3 Wait for the paged party to answer.
- 4 When the paged party answers, press **[CONF]** to make a conference call.
 - To leave the conference, press **[SP-PHONE]**. The other parties can continue the conversation.
 - To put the outside call on hold, press **[HOLD]**. To resume the conference, press **[CONF]**.

Note for handset and base unit:

- One more extension can join a conference call. To join the conference call using the handset, press **[↶]**. To join using the base unit, press **[SP-PHONE]**. A maximum of 4 parties can join a conference call.

Registering a handset

The included handset and base unit are preregistered. If for some reason the handset is not registered to the base unit, register the handset.

Important:

- If you have already deregistered the handset, perform steps 2 and 3 only.

1 Handset:

[MENU] (middle soft key) →
[#][1][3][0]

2 Base unit:

Press and hold **[INTERCOM]** until the IN USE indicator flashes.

- After the IN USE indicator starts flashing, the rest of the procedure must be completed within 90 seconds.

3 Handset:

Press **[OK]**, then wait until a beep sounds.

Registering an additional handset

See page 6 for information on the available models and extension numbers.
Start from step 2.

Deregistering a handset

Handset

1 **[MENU]** (middle soft key) →
[#][1][3][1]

2 **[3][3][5]** → **[OK]**

Deregistering other devices

The base unit can cancel the registration of a registered device (KX-TGA593AL/KX-TGA595AL, page 6).

Deregistering the cordless camera (KX-TGA593AL)

Important:

- Before deregistering, confirm the cordless camera's extension number (colour display models only: KX-TGA591AL).
Press **[INTERCOM]** on the handset to display its extension.

Base unit

- 1 Press and hold **[INTERCOM]** until the IN USE indicator flashes.
- 2 Press and hold the cordless camera's extension number (**[1]** – **[8]**) until a beep sounds.

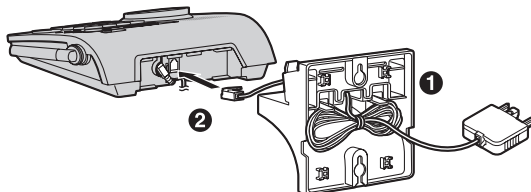
Deregistering the USB adaptor (KX-TGA595AL)

Base unit

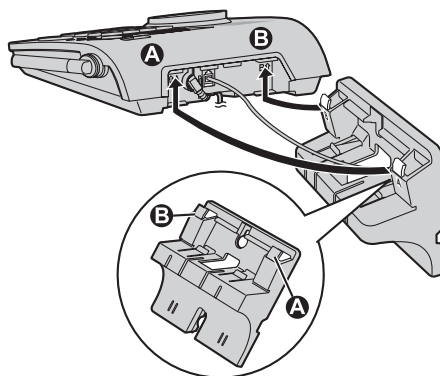
- 1 Press and hold **[INTERCOM]** until the IN USE indicator flashes.
- 2 Press and hold **[*]** until a beep sounds.

Wall mounting

- 1 Tuck the telephone line cord inside the wall-mounting adaptor (1). Connect the AC adaptor and telephone line cord to the base unit (2).

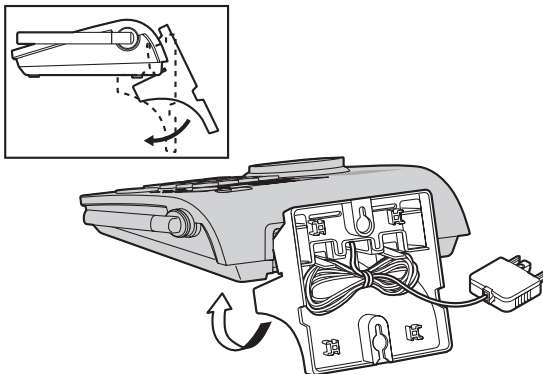


- 2 Insert the hooks on the wall-mounting adaptor into the holes (A) and (B) on the base unit.

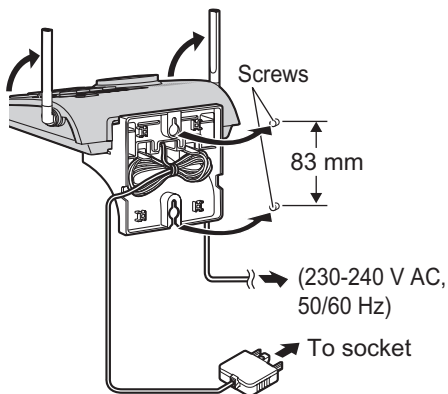


Useful Information

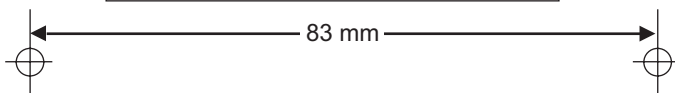
- 3** Adjust the adaptor to hold the base unit, then push it in the direction of the arrow until it clicks into place.



- 4** Drive the screws (not included) into the wall using the wall-mount template (see below) as a guide. Mount the unit and slide it down into position. Connect the AC adaptor and telephone line cord to their respective outlets. Raise the antennas.

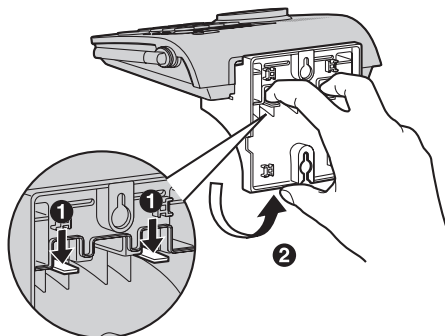


Wall mount template for the base unit



To remove the wall-mounting adaptor

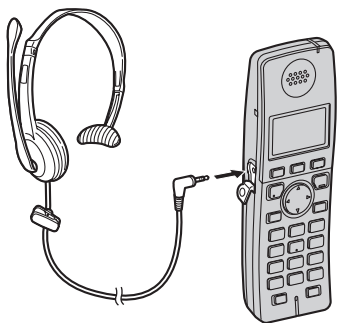
While pushing down the release levers (❶), remove the adaptor (❷).



Additional accessories

Headset (optional)

Connecting a headset to the handset allows hands-free phone conversations. We recommend using the Panasonic headset noted on page 9.



- Headset shown is KX-TCA86AL.
- Handset shown is KX-TGA590AL.

Note:

- Only telecommunications compliance labelled headsets should be plugged into the headset jack on the handset.

Belt clip (optional)

By purchasing the optional belt clip (page 9), you can hang the handset on your belt or pocket.

Error messages

If the unit detects a problem, one of the following messages is shown on the display.

Display message	Cause/solution
Busy	<ul style="list-style-type: none"> • The called handset or base unit is in use. • Privacy mode is on for the call you tried to join (page 28). • Other units are in use and the system is busy. Try again later.
Dial locked	<ul style="list-style-type: none"> • Dial lock is turned on. To turn it off, see page 29.
Error!!	<ul style="list-style-type: none"> • The handset's registration has failed. Move the handset and base unit away from all electrical appliances and try again. • 8 handsets have already been registered to the base unit. A previously deregistered handset number may still be retained in the base unit. To register an additional handset, erase the unnecessary handset number using the base unit: Press and hold [INTERCOM] until the IN USE indicator flashes. → Press and hold the handset's extension number ([1] – [8]) that you want to cancel/delete from the base unit until a beep sounds. • The entered password was wrong in programming dial lock. Enter the correct password.
Failed	<ul style="list-style-type: none"> • The handset you tried to copy phonebook items to is in use. • The handset you tried to copy phonebook items to is out of area.
Incomplete	<ul style="list-style-type: none"> • The destination handset's phonebook memory is full. Erase unnecessary items from the destination handset's phonebook (page 33).
Invalid. Please register to the base unit	<ul style="list-style-type: none"> • The handset is not registered to the base unit. Register the handset (page 58).
No items stored	<ul style="list-style-type: none"> • Your phonebook or redial list is empty. • Colour display models only (KX-TGA591AL): "My pictures" is empty.

Useful Information

Display message	Cause/solution
No link to base. Move closer to base, try again.	<ul style="list-style-type: none">• The handset has lost communication with the base unit. Move closer to the base unit, and try again.• Confirm that the base unit's AC adaptor is plugged in.• Raise the base unit antennas.• The handset's registration may have been cancelled. Re-register the handset (page 58).
Phonebook Memory full	<ul style="list-style-type: none">• There is no space to store new items in the phonebook. Erase unnecessary items (page 33).
Please lift up and try again.	<ul style="list-style-type: none">• A handset button was pressed while the handset was on the base unit or charger. Lift the handset and press the button again.

Troubleshooting



General use

Problem	Cause/solution
The unit does not work.	<ul style="list-style-type: none"> • Make sure the battery is installed correctly and fully charged (page 15). • Check the connections (page 14). • Unplug the base unit's AC adaptor to reset the unit. Reconnect the adaptor and try again. • The handset has not been registered to the base unit. Register the handset (page 58).
I cannot hear a dial tone.	<ul style="list-style-type: none"> • Confirm the telephone line cord is properly connected (page 14). • Disconnect the unit from the telephone line and connect a known working telephone. If the working telephone operates properly, contact our service personnel to have the unit repaired. If the working telephone does not operate properly, contact your service provider/telephone company.

Programmable settings

Problem	Cause/solution
While programming, the handset starts to ring.	<ul style="list-style-type: none"> • A call is being received. Answer the call and start again after hanging up.

Battery recharge

Problem	Cause/solution
I fully charged the battery, but  continues to flash, or  is displayed.	<ul style="list-style-type: none"> • Clean the charge contacts and charge again (page 15). • The battery may need to be replaced with a new one (page 15).
The handset display is blank.	<ul style="list-style-type: none"> • Confirm that the battery is properly installed. • Fully charge the battery (page 15).

Useful Information

Making/answering calls, intercom

Problem	Cause/solution
☎ is displayed, but I cannot make a call.	<ul style="list-style-type: none">● The handset and base unit could not communicate for some reason, such as interference from other electrical appliances. Perform the following:<ul style="list-style-type: none">– Move the handset and base unit away from other electrical appliances.– Move closer to the base unit.– Raise the base unit antennas.
Static is heard, sound cuts in and out. Interference from other electrical units.	<ul style="list-style-type: none">● Move the handset and base unit away from other electrical appliances.● Move closer to the base unit.● Raise the base unit antennas.● Turn on the clarity booster feature (page 27).● If your unit is connected to a telephone line with ADSL service, we recommend connecting a noise filter between the base unit and the telephone line socket. Contact your ADSL provider for details.
The handset and base unit do not ring.	<ul style="list-style-type: none">● The ringer volume is turned off. Adjust it (page 26, 45).
I cannot make a call.	<ul style="list-style-type: none">● The base unit or another handset is in use. Try again later.● Dial lock is turned on. To turn it off, see page 28.● If the above remedies do not solve the problem, set the dialling mode. Press [MENU] [⌂] [1] [2] [0] [Save] [OFF].● The unit is not designed to be used with rotary (pulse dialling) services.
I cannot redial by pressing [REDIAL] .	<ul style="list-style-type: none">● If the last number dialled was more than 48 digits long, the number will not be redialled correctly. Dial the number manually.● Dial lock is turned on. To turn it off, see page 28.
I cannot have a conversation using the headset.	<ul style="list-style-type: none">● Make sure that an optional headset is connected properly (page 62).● We recommend using the Panasonic headset noted on page 9.
I cannot page the handset or base unit.	<ul style="list-style-type: none">● The called handset is too far from the base unit.● The called unit is in use. Try again later.

Problem	Cause/solution
I cannot turn the clarity booster on.	<ul style="list-style-type: none">● Another handset is already using this feature.

Caller ID

Problem	Cause/solution
The handset does not display the caller's phone number.	<ul style="list-style-type: none">● You have not subscribed to Caller ID service. Contact your telephone service provider/telephone company to subscribe.● If your unit is connected to any additional telephone equipment such as a Caller ID box or cordless telephone jack, disconnect the unit from the equipment and plug the unit directly into the wall jack.● If your unit is connected to a telephone line with ADSL service, we recommend connecting a noise filter between the base unit and the telephone line socket. Contact your ADSL provider for details.● Other telephone equipment may be interfering with this unit. Disconnect the other equipment and try again.● The caller requested not to send caller information (page 36).● If a call is being transferred to you, the caller information is not displayed.● Generally, caller information is displayed from the 2nd ring.

Instructions to customer

Installation

Attached to this apparatus is an approval label. This label is evidence that it is a "Permitted Attachment" which has been authorised to be connected to your telephone service.

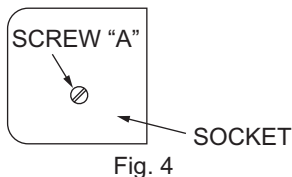
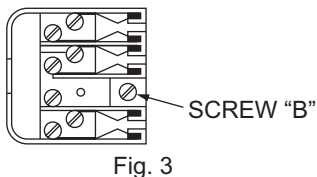
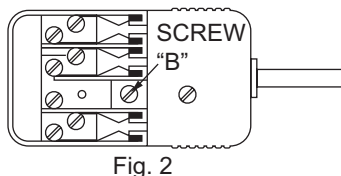
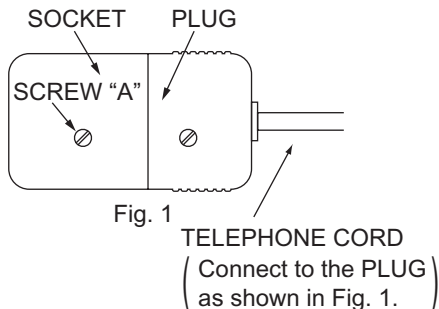
Conditions relating to connection and operation of this Permitted Attachment are contained in Telecommunications General By-Law 220 (5).

You are authorised to install this Permitted Attachment yourself by plugging it into the line socket of any regular telephone. You may connect it in place of your existing telephone or to any spare telephone socket installed in your premises.

To disconnect your existing telephone you must first remove its plug from the line socket. You can then insert the plug of your Permitted Attachment into the socket and use your equipment.

If the plug of your existing telephone cannot be readily removed, you will have to remove the screw securing it. To do this proceed as follows:

1. Loosen screw "A" sufficiently to remove the socket cover. (See Fig. 1.)
2. Remove screw "B" and withdraw the plug. (See Fig. 2.)
3. Replace screw "B". (See Fig. 3.) Ensure that it screws completely into the socket recess. (If the screw is too long, increase the hole depth or replace the screw with one 5 mm shorter.)
4. Replace socket cover and tighten screw "A". (See Fig. 4.)



If you are satisfied with the operation of your telephone service after plugging in your Permitted Attachment, your installation is completed.

You will be unable to connect this Permitted Attachment if your telephone service consists only of a wall phone or an old style telephone which is not connected by means of a modern plug and socket. In such cases a new socket will need to be installed.

Should the Permitted Attachment not operate when plugged into a socket, it is either faulty or unsuitable for operation with your telephone service. It should be returned to the store where purchased or an Authorised Service Centre.

Service difficulties

If at any time a fault occurs on your telephone service, carry out the following checks before you call for service:

- Disconnect the Permitted Attachment and try using the service with the normal telephone.
- If the telephone service then operates satisfactorily, the fault is in your Permitted Attachment. Leave the Permitted Attachment disconnected and report the fault to its supplier or agent to arrange for repair.
- If when using the telephone the service is still faulty, report the fault to “Service Difficulties and Faults” for attention.

You are required to keep this Permitted Attachment in good working order while it is connected to your telephone service. Its construction or internal circuit must not be modified in any way without permission.

WARNING:

This cordless telephone system does not incorporate provision for secrecy of conversations. Appropriately tuned radio equipment and other cordless telephone systems in close proximity may be used by a third party to monitor and possibly interrupt conversations in progress when this system is on radio operation.

Specifications

General

Operating environment	5 °C – 40 °C (41 °F – 104 °F)
Frequency	5.76 GHz – 5.84 GHz

Base unit

Dimensions	Approx. height 55 mm x width 230 mm x depth 140 mm (2 ⁵ / ₃₂ inches x 9 ¹ / ₁₆ inches x 5 ¹ / ₂ inches)
Mass (Weight)	Approx. 410 g (0.90 lb.)
Power consumption	Standby: Approx. 2.5 W Maximum: Approx. 6.4 W
Power output	200 mW (max.)
Power supply	AC adaptor (230–240 V AC, 50/60 Hz)

Handset

Dimensions	Approx. height 156 mm x width 49 mm x depth 35 mm (6 ¹ / ₈ inches x 1 ¹⁵ / ₁₆ inches x 1 ³ / ₈ inches)
Mass (Weight)	Approx. 150 g (0.33 lb.)
Power output	200 mW (max.)
Power supply	Ni-MH battery (2.4 V, 830 mAh)

Note:

- Design and specifications are subject to change without notice.
- The illustrations in these instructions may vary slightly from the actual product.

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Notes

Notes

Notes

Customer Support Centre Tel. No.: 132600 or website www.panasonic.com.au



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